

From: SAN BRUNO ARCHIVE

Date Copied/Mailed: 3/12/03

HPS-HRA-422

Copier: HANEY  
Name

-----  
DOCUMENT

Achieve File ID: 181-59-476

Title: RELEASE OF NRAL SPACES IN FLAG 520 TO SFNS

Serial No: M3-53

Pages: 19

Notes: 9 JUNE 1953  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ESTIMATE FOR SPECIAL ALLOTMENT  
APPROPRIATION: SUPPLIES AND FACILITIES (NAVY)  
NAVDOKKS 187 REV. 2-47

U. S. Naval Radiological Defense Laboratory  
PLACE San Francisco 24, California

DATE 9 Jun 1953

ORDER OF IMPORTANCE: NUMBER Category A

PROJECT NUMBER M3-53

PURPOSE

Release of NRDL Space in Building 520 to San Francisco Naval Shipyard

TOTAL ESTIMATED COST \$6,000.00

FUNDS REQUESTED NOW: AMOUNT \$6,000.00

DESCRIPTION OF PROJECT AND COMMENT, INCLUDING STATEMENT OF DEGREE OF URGENCY AND NECESSITY:

- Attachment (1) Detailed Cost Estimate  
Attachment (2) NRDL Scope Dwg S-53-520  
Attachment (3) Scope of Work by Building and Room Number

I. Description:

1. In general, the proposed NRDL Project M3-53, consists of relocation of several groups of personnel and some minor alterations and improvements in order for the Laboratory to vacate and return space in Building 520 to the Shipyard. The Consolidation and Rearrangement Program requisite to return of NRDL space in Building 520 to the Shipyard, can be broken down as follows:

(1) Construction

a. Alterations and improvements to Rooms 217, 219, 220, 221, 222 and 223, Building 508.

b. Alterations and improvements to Room 133, Building 351B.

(2) Moves

a. Health Physics Division from Rooms 123, 124, 125, 113, 113A and 114A, Building 351B to Rooms 209, 210, 217, 219, 220, 221, 222 and 223, Building 508.

b. Instrumentation Branch from Room 241 to Room 239, Building 351B.

(CONTINUE ON ANOTHER SHEET IF NECESSARY)

THIS SPACE RESERVED FOR BUREAU MEMORANDUM

PROJECT MANAGER \_\_\_\_\_

BUREAU ACTION \_\_\_\_\_

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

Date 9 Jun 1953

Order of Importance: Number Category A  
Purpose

Project Number M3-53

Release of NRDL Space in Building 520 to San Francisco Naval Shipyard

c. Technical Developments Branch (Chemical Technology Division) from Room 116 to 117, Building 351B.

d. Material and Accounts Division from Room 122 to Room 121, Building 351B.

e. Management Engineering from Room 132A to Room 133, Building 351B.

(3) Construction

a. Installations and alterations to Rooms 113, 113A, 114A and 125, Building 351B.

(4) Moves

a. Budget Division from Room 134 to Rooms 125 and 132A, Building 351B.

b. IEO from Room 112 to Rooms 123 and 124, Building 351B.

c. Scientific Staff from Room 114 to Room 134, Building 351B.

(5) Construction

a. Installations and alterations in Rooms 114, 116, 122 and 241, Building 351B.

(6) Moves

a. Military Evaluations Group from Rooms 8, 10, 11, 18, 19, 20, 21, 22, 23, and 24, Building 520 to Rooms 113, 113A, 114, 114A and 241, Building 351B.

b. Project Officers from Rooms 12, 13, 14, 15, 15A, 16 and 17, Building 520 to Rooms 112, 116, 122 and 129, Building 351B.

(7) Clean-up and Salvage Operations - Rooms 8, 8A, 10, 11, 12, 13, 14, 15, 15A, 16, 16A, 17, 18, 19, 20, 21, 22, 23 and 24, Building 520.

II. Justification:

A. The Laboratory occupied a portion of Building 520 in January 1948 when the Laboratory was exceedingly short of needed working space and the complement of the Dental Department, San Francisco Naval Shipyard was down to the point that the upper floor could be spared. The Laboratory agreed to relinquish the space on notice if needed by the Dental Department.

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

Date 9 Jun 1953

Order of Importance: Number Category A  
Purpose

Project Number M3-53

Release of NRDL Space in Building 520 to San Francisco Naval Shipyard

B. Now the complement of dental officers assigned exceeds the available space. In addition, it is necessary to have two or three offices available for use by dental officers assigned to ships when their vessel is undergoing overhaul in the Shipyard, and the dental quarters are rendered untenable by Shipyard work. For the foreseeable future the need for additional space by the Dental Department will continue. Temporary arrangements have been made but are far from satisfactory.

C. The separation of the Director's Office from those of the Project Officers and the Military Evaluation Branch by assignment of space in widely separated buildings has resulted in an unsatisfactory situation where communication and close working relationship is impaired. The same situation would exist if the Projects Officers and the Military Evaluation Branch were separated or assigned space in separate buildings. Some difficulty was anticipated when the Directorate was moved from Building 520 to Building 351B in order to return three office spaces to the Dental Department, but the difficulty is more serious than previously expected.

D. The accomplishment of this proposed project will:

(a) Make it possible to alleviate the overcrowded and congested conditions existing in the Shipyard dental quarters.

(b) Make possible the use of Building 520 for its intended purpose, as no other suitable dental facilities exist in the Shipyard.

E. The purpose of this project is to:

(a) Evacuate the NRDL space in Building 520 for its return to the cognizance of the Shipyard.

(b) Move that portion of the Directorate still occupying Building 520 to Building 351B for satisfactory communication and closer working relationship with the Director.

F. In case this project is not authorized, NRDL must then continue to occupy Building 520 until Building 815 is completed and ready for occupancy, with the continued impaired working relationship between the Director and the Projects Officers and the continued unsatisfactory working conditions presently constituted Shipyard dental quarters.

G. The proposed moves, relocations, alterations and improvements have been carefully screened and are austerity minima in scope if reasonable satisfactory working conditions are to be provided for:

ESTIMATE FOR SPECIAL ALLOCATION

APPROPRIATION: SHIPS AND FACILITIES (NAVY)

NavDocks 167 Rev. 3-47

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

Date 9 Jun 1953

Order of Importance: Number Category A

Project Number M3-53

Purpose

Release of NRDL Space in Building 520 to San Francisco Naval Shipyard

- (1) Dental Department
- (2) The NRDL Directorate
- (3) The NRDL Medical Department

H. This project will produce more efficient and economical operation and will create a saving by providing for:

- (1) Better management of both the Laboratory and Dental Department
- (2) More direct supervision in both the Laboratory and Dental Department
- (3) Reduction in messenger service and communication requirements and attendant wasted motion for both the Laboratory and the Dental Department.

I. The estimated cost of this project is \$6,000. A detailed cost estimate breakdown accompanies this description and justification as attachment (1). This project will be started immediately upon authorization and receipt of funds and will be completed in approximately two (2) months.

J. The advantages of immediate action on this proposed project are:

- (1) Early release of urgently required space to the Dental Department of the Shipyard.
- (2) Greater savings to the Navy Department through punctual rearrangement and consolidation of the NRDL activities and functions.

K. It is proposed that the project be accomplished by Station and/or Shipyard labor as indicated by the detailed cost estimate - attachment (1).

L. The component parts of this project are result of a single decision of the local management of the Laboratory. Each phase or increment of the project is a necessary step in order for the Laboratory to vacate its portion of Building 520 and utilize working areas made available by moves to new working areas. The construction and improvements involved are essential to and complete and effective for the purpose intended, and will provide more effective and economical operation. Contingent upon the whole of this consolidation and rearrangement program being put in effect the annual savings for the Laboratory on a purely administrative basis is believed to be over \$3000 in annual operating cost. There is no yardstick or information available to the Laboratory by which annual savings for the Dental Department can be estimated. However, it is known that, under present conditions, there is considerable loss of time and wasted motion in operation of the Dental facilities.

U. S. Naval Radiological Defense Laboratory (Revised 3 Jun 1953)  
PLACE San Francisco 24, California DATE 18 Mar 1953

ORDER OF IMPORTANCE: NUMBER Category A PROJECT NUMBER 174-53

PURPOSE

Moving into and occupancy of the new permanent NRDL facilities

TOTAL ESTIMATED COST \$ 164,750.00 (Preliminary estimate only)

FUNDS REQUESTED NOW: AMOUNT \$ 3,750.00 (About Aug. 1953 & \$161,000 about July 54)

DESCRIPTION OF PROJECT AND COMMENT, INCLUDING STATEMENT OF DEGREE OF URGENCY AND NECESSITY:

Attachment (1) Detailed Cost Estimate for Occupancy of Building 816  
Attachment (2) Preliminary Cost Estimate for Occupancy of Building 815

I. Description:

1. Funds for construction of the new permanent facilities (Buildings 815 and 816) for the U. S. Naval Radiological Defense Laboratory were provided by appropriation 17X1205, allotment 14255. Building 816 is scheduled for completion during September 1953, and Building 815, which is also under construction, is scheduled for completion during September 1954. The completion of the new permanent facilities for the Laboratory will necessitate the moving of the Laboratory personnel to and the reinstallation of all the Laboratory equipment in Buildings 815 and 816. This project is divided into two parts as follows:

A. Moving into and occupancy of Building 816.

B. Moving into and occupancy of Building 815.

2. In general, Part A of this proposed NRDL project 174-53 necessitated by the completion of Building 816 can be broken down as follows:

a. Moving plant equipment items from the present NRDL temporary facilities and installation in Building 816.

b. Outfitting Building 816 with minor property in use items. (Submitted in accordance with Chapter III, Paragraph 3-01 (2) of NAVSHIPS 250-770 Rev. 15 Mar 1953).

(CONTINUE ON ANOTHER SHEET IF NECESSARY)

THIS SPACE RESERVED FOR BUREAU MEMORANDUM

PROJECT MANAGER \_\_\_\_\_

BUREAU ACTION \_\_\_\_\_

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

(Revised 3 Jun 1953)  
Date 18 Mar 1953

Order of Importance: Number Category A  
Purpose

Project Number M4-53

Moving into and occupancy of the new permanent ERDL facilities

3. In general, Part B of this proposed ERDL project M4-53 necessitated by the completion of Building 815 and the resultant personnel moves and laboratory equipment installations, in order to utilize the new permanent facilities can be broken down as follows:

- a. Move all personnel and portable gear from Buildings 313, 313A, 322, 351, 351A, 351B, 500, 506, 507, 508, 510 (except Kevatron), 517, 520, 529 and steel shed Number 2 into Building 815.
- b. Remove fixed Laboratory equipment from Buildings 313, 313A, 322, 500, 506, 507, 508, 510, 517, 520, 529 and install same in Building 815.
- c. Remove fixed equipment from Buildings 351, 351A and 351B and install same in Building 815.
- d. Move steel sheds numbers 1 and 2 to the "707" Area, and clean-up and salvage operations of both the building areas and the interior of the buildings preliminary to turning the following buildings over to the Shipyard: 313, 313A, 322, 351, 351A, 351B, 506, 507, 508, 510, 517, 520, and 529.
- e. Provide and install Minor Plant Property Items in Building 815. (Submitted in accordance with Chapter III, Paragraph 3-01 (2) of NAVSHIPS 250-770 Rev. 15 Mar 1953).

4. All the component parts of this proposed ERDL project M4-53, Parts A and B, outlined above make up an undertaking arrived at in a single decision of management. It is proposed to start Part A of this project, the occupancy of Building 816, about 1 September 1953 provided funds are available at that time. It is estimated that four (4) months after acceptance of Building 816 all moves, installations and occupancy will be completed. It is proposed to start Part B of this project, the occupancy of Building 815, about July 1954 as sections or floors of Building 815 are completed and ready for installation of equipment, provided funds are available at that time. It is estimated that six (6) months after the acceptance of Building 815 all moves, installations, and occupancy will be completed and the vacated buildings returned to the Shipyard.

## II. Estimate of Cost:

A rough estimate or the best first guess of the total cost to accomplish this ERDL project M4-53, Parts A and B, to move the Laboratory from its temporary quarters

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

(Revised 3 Jun 1953)  
Date 18 Mar 1953

Order of Importance: Number Category A  
Purpose

Project Number M4-53

Moving into and occupancy of the new permanent NRDL facilities

into Buildings 815 and 816 is \$164,750.00 (Part A \$3,750.00 and Part B \$161,000.00). Attachment (1) accompanying this description and justification is the detailed estimate of cost to accomplish Part A, moving into and occupancy of Building 816. Attachment (2) accompanying this description and justification is a breakdown of the preliminary estimate of cost indicating direct labor and material cost, and overhead cost of Part B. The cost estimate for Part B is an advanced presentation for Bureau approval of the project and for Bureau budget purposes. Part B of this project is now under study at the Laboratory and later the Bureau will be furnished a detailed preliminary cost estimate, which will be followed by a detailed estimate of cost with the necessary scope drawings when the completion date of Building 815 is more definitely known and the allocation of funds for accomplishment of Part B is requested.

### III. Justification:

1. This project will make possible the utilization of the new permanent facilities, Building 815 and 816. The occupancy of Building 816 will provide the Laboratory with a facility for evaluation of radia instruments under conditions simulating actual radiation fields. A partial listing of the evaluation problems depending on the completion and adequate outfitting of the Van de Graaff Building are:

- High intensity detectors
- Hazard detectors
- Dosimeters
- Shipboard detectors
- Neutron detectors
- Production testing

2. The precise evaluation of detection instruments is of extreme importance, especially at the higher ranges, since errors in calibration would have serious tactical consequences. For further justification see:

- a. NRDL ltr to BuShips file 3-940 over S67/11-2 ser 81724 of 10 May 1951.
- b. NRDL ltr to BuShips file 3-146A over L10-3 ser 81994 of 7 Sept 1951.

3. Each phase or increment of Part A of this project M4-53 are necessary and essential steps to provide an adequate facility for the Laboratory in performance of its mission of evaluation of radia instruments. The occupancy of Building 815 will provide a means of regrouping and consolidating similar functions, and relieving existing overcrowded and congested conditions in the present temporary facilities. The proposed project, when completed and placed in effect will produce more efficient and economical operation and will create a saving by providing for:

APPROPRIATION: SHIPS AND FACILITIES (NAVY)  
NavDocks 167 Rev. 3-47

U. S. Naval Radiological Defense Laboratory  
Place San Francisco 24, California

(Revised 3 Jun 1953)  
Date 18 Mar 1953

Order of Importance: Number Category A  
Purpose

Project Number M4-53

Moving into and occupancy of the new permanent NRDL facilities

- a. Better management
- b. More direct supervision
- c. Reduction in messenger service, transportation and communication requirements and the attendant wasted motion.
- d. More positive and necessary security control with the reduction in the present number of guards.

4. Savings to be realized by the occupancy of the new permanent NRDL facilities cannot be estimated because there is no yard stick by which the rate of increase in progress of scientific work can be determined. However, on a purely administrative basis, it is believed that \$20,000 in annual personnel salaries and operating cost will be saved. It is not considered practical to prorate this saving over each increment of Parts A and B of this project M4-53. Each phase or increment of Part B of this project M4-53 are the necessary steps to utilize Building 815, a new permanent facility for the Laboratory, and for returning to the Shipyard the present temporary facilities and buildings.

5. The approval of this major non-recurring maintenance (and expense) project is urgent and vital for the program of the Laboratory in connection with radiological defense and safety. The accomplishment of both Parts A and B of this project are a necessity in order to utilize the new permanent facilities provided the Laboratory by the completion of Buildings 815 and 816 and in order to return temporarily assigned buildings to the Shipyard.

U. S. Naval Radiological Defense Laboratory  
PLACE: San Francisco 24, California

ORDER OF IMPORTANCE: Category A

Date: 8 Jun 1953

PURPOSE: Consolidation and Rearrangement Program for Return to SFNS  
the NRDL Space in Building 520

Project No: M3-53

Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SFNS the NRDL Space in Building 520:

Summary by Type of Work

<u>Description</u>	<u>Labor</u>	<u>Material</u>	<u>Total</u>
Construction	\$ 1812.50	\$ 1290.50	\$ 3103.00
Mechanical	205.00	246.00	451.00
Electrical	376.00	358.50	734.50
Collateral	113.00	6.10	119.10
A&E Dwg & Specs.	110.00		110.00
Moves	774.00		774.00
Clean-up & Salvage	132.00	8.00	140.00
Total	<u>3522.50</u>	<u>1909.10</u>	<u>5431.60</u>
10% Contingency			543.00
Grand Total			<u>5974.60</u>
Say			6000.00

Since all work will be accomplished by either NRDL or SFNS IO7 no overhead is included in Cost Estimate.

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SPNS the NRDL Space in Building 520, Cont'd

<u>Project Item Number</u>	<u>Description</u>	<u>Labor</u>	<u>Material</u>	<u>Total</u>
1a.	Alterations & Improvements to Rms. 220, 221, 222 & 223, Bldg. 508	\$ 885.00	\$ 471.10	\$ 1356.10
1b.	Alterations & Improvements to Rm. 133, Bldg. 351B	201.00	154.00	355.00
2a.	Move Health Physics Division	98.00		98.00
2b.	Move Instrumentation Branch	52.00		52.00
2c.	Move Tech. Developments Branch	39.00		39.00
2d.	Move Materials & Accounts Division	13.00		13.00
2e.	Move Management Engineering Division	13.00		13.00
3.	Alterations & Improvements to Rms 113, 113A, 114 & 125, Bldg 351B.	184.50	90.50	275.00
4a.	Budget Division	13.00		13.00
4b.	Move Industrial Engineering Officer	13.00		13.00
4c.	Move Scientific Staff	39.00		39.00
5.	Alterations & Improvements to Rms 114, 116, 122, 241, Bldg 351B.	1346.00	1185.50	2531.50
6a.	Move Military Evaluations Group	260.00		260.00
6b.	Move Projects Officers	234.00		234.00
7.	Clean-up & Salvage Operations	132.00	8.00	140.00
	<b>Total</b>	<u>3522.50</u>	<u>1909.10</u>	<u>5431.60</u>
	10% Contingency			543.00
	<b>Grand Total</b>			<u>5974.60</u>
	Say			6000.00

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SPNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
<u>1. Alterations &amp; Improvements</u>								
<u>1a. Rooms 220, 221, 222 and 223, Building 508</u>								
<u>A. Construction</u>								
	1 lot	Remove counter, Rm 220	NRDL	\$ 55.00	-	\$ 55.00	-	\$ 55.00
	1 lot	Remove wire partition	NRDL	30.00	-	30.00	-	30.00
	1 lot	Remove wire on exist. partition	NRDL	10.00	-	10.00	-	10.00
	100 SF	Partition exist studs shrk 2 sides	NRDL	.35	.20	35.00	20.00	55.00
	60 SF	Partition, new		.45	.30	27.00	18.00	45.00
	1 ea	Door change swing		10.00	-	10.00	-	10.00
	350 SF	Painting		.15	.08	52.50	28.00	80.50
	190 SF	Partition, new, Room 221	NRDL	.45	.30	85.50	57.00	142.50
	1 ea.	Door, new		36.00	40.00	36.00	40.00	76.00
	400 SF	Painting		.15	.08	60.00	32.00	92.00
	1 ea.	Door, new, Rm. 222 - 223	NRDL	36.00	40.00	36.00	40.00	76.00
		Sub-Total				<u>437.00</u>	<u>235.00</u>	<u>672.00</u>
<u>B. Mechanical</u>								
	3 ea.	Convertors, Rooms 221 - 222 - 223	X07	45.00	50.00	135.00	150.00	285.00
<u>C. Electrical</u>								
	3 ea.	Fluor Fix Relocate, Rm. 220	NRDL	6.00	-	18.00	-	18.00
	1 ea.	Fluor Fix, new	NRDL	10.00	18.00	10.00	18.00	28.00
	1 ea.	Outlet 208V-3Ø-20A	NRDL	24.00	15.00	24.00	15.00	39.00
	3 ea.	Plug-in Strips 6' long	NRDL	12.00	8.00	36.00	24.00	60.00
	1 ea.	Thermostat Relocate	NRDL	10.00	-	10.00	-	10.00
	3 ea.	Fluor Fix Relocate, Rm. 221	NRDL	6.00	-	18.00	-	18.00
	1 ea.	Fluor Fix, new	NRDL	10.00	18.00	10.00	18.00	28.00
	1 ea.	Switch, lighting	NRDL	10.00	5.00	10.00	5.00	15.00
	4 ea.	Fluor Fix Relocate Rm 222 - 223	NRDL	6.00	-	24.00	-	24.00
		Sub-Total				<u>160.00</u>	<u>80.00</u>	<u>240.00</u>

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SFNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
D. Collateral								
	9 ea.	Bench Units Lab (on hand) Rm. 221	NRDL	\$ 9.00	\$ .50	\$ 81.00	\$ 4.50	\$ 85.50
	32 LF	Bench-top (on hand)	NRDL	1.00	.50	32.00	1.60	33.60
		Sub-Total				<u>113.00</u>	<u>6.10</u>	<u>119.10</u>
E. Prep. of A&E Dwgs. and Specs.								
	2 MD		NRDL	20.00	-	40.00	-	40.00
Summary for Item 1a								
A.	Construction					437.00	235.00	672.00
B.	Mechanical					135.00	150.00	285.00
C.	Electrical					160.00	80.00	240.00
D.	Collateral					113.00	6.10	119.10
E.	A&E Dwgs. & Specs.					40.00	-	40.00
	Total for Item 1a					<u>885.00</u>	<u>471.10</u>	<u>1356.10</u>

1b Room 133, Building 351B

A. Construction

20 LF	Partition, panel type	NRDL	5.50	4.50	110.00	90.00	200.00
1 ea	Door, new, 3' X 6' 8"	NRDL	36.00	40.00	36.00	40.00	76.00
300 SF	Paint, new work	NRDL	.15	.08	45.00	24.00	69.00
	Sub-Total				<u>191.00</u>	<u>154.00</u>	<u>345.00</u>

B. Mechanical

None

C. Electrical

None

D. Collateral

None

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and  
 Rearrangement Program for Return to SPNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
E. A&E Dwgs & Specs.								
	1/2	MD	NRDL	\$ 20.00	-	\$ 10.00	-	\$ 10.00
Summary for Item 1b								
A.	Construction					191.00	154.00	345.00
B.	Mechanical							
C.	Electrical							
D.	Collateral							
E.	A& E Dwgs & Specs.					10.00	-	10.00
	Total for Item 1b					201.00	154.00	355.00
2. Move								
2a. Health Physics Division from Rooms 123, 124, 125, 113, 113A and 114, Building 351B to Rooms 209, 210, 217, 219, 220, 222 & 223, Building 508								
	6	MD	NRDL	13.00	-	98.00	-	98.00
2b. Instrumentation Branch from Room 241 to Room 239, Building 351B								
	4	MD	NRDL	13.00	-	52.00	-	52.00
2c. Technical Developments Branch from Room 116 to Room 117, Building 351B								
	3	MD	NRDL	13.00	-	39.00	-	39.00
2d. Materials and Accounts from Room 122 to Room 121, Building 351B								
	1	MD	NRDL	13.00	-	13.00	-	13.00
2e. Management Engineering from Room 132A to Room 133, Building 351B								
	1	MD	NRDL	13.00	-	13.00	-	13.00

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SFNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
<b>3. Alterations &amp; Improvements</b>								
Rooms 113, 113A, 114A and 125								
<b>A. Construction</b>								
	7 IF	Partition, panel type, Rm 113	NRDL	\$ 5.00	\$ 4.50	\$ 38.50	\$ 31.50	\$ 70.00
	1 lot	Benches, existing, remove Rms 113A & 114A		40.00	-	40.00	-	40.00
	1 ea	Door, new 3'X6'8", Rm. 125		36.00	40.00	36.00	40.00	76.00
	1 lot	Paint, patch & new, Rms 113, 113A, 114A & 125		10.00	5.00	10.00	5.00	15.00
		Sub-Total				124.50	76.50	201.00
<b>B. Mechanical</b>								
None								
<b>C. Electrical</b>								
	4 ea.	Outlets, duplex Rm 125		10.00	3.50	40.00	14.00	54.00
<b>D. Collateral</b>								
None								
<b>E. Prep. of A&amp;E Dwg &amp; Specs.</b>								
	1 MD	Drafting		20.00	-	20.00	-	20.00
<b>Summary for Item 3</b>								
<b>A. Construction</b>						124.50	76.50	201.00
<b>B. Mechanical</b>								
<b>C. Electrical</b>						40.00	14.00	54.00
<b>D. Collateral</b>								
<b>E. A&amp;E Dwg</b>						20.00	-	20.00
<b>Total for Item 3</b>						184.50	90.50	275.00

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and  
 Rearrangement Program for Return to SFNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
<u>4. Move</u>								
4a. Budget Division from Rm 134 to Rms 125 and 132A, Bldg 351B								
	1 MD		NRDL	\$ 13.00	-	\$ 13.00	-	\$ 13.00
4b. IEO from Rm 112 to Rms 123 and 124, Bldg. 351B								
	1 MD		NRDL	13.00	-	13.00	-	13.00
4c. Scientific Staff from Rm 114 to Rm 134, Bldg. 351B								
	3 MD		NRDL	13.00	-	39.00	-	39.00
<u>5. Alterations and Improvements</u>								
Rms 114, 116, 122 and 241, Bldg. 351B								
A. Construction								
200 SF		Partition shtrk, 2 sides, Rm. 122	NRDL	.40	.30	80.00	60.00	140.00
400 SF		Painting, new work		.15	.08	60.00	32.00	92.00
320 SF		Partition shtrk, 2 sides, Rm. 116		.40	.30	128.00	96.00	224.00
56 LF		Partition, panel type		5.50	4.50	308.00	252.00	560.00
1 ea		Door, swing gate 2'8" X 3'0"		10.00	12.00	10.00	12.00	22.00
1 ea		Louver, install		10.00	3.00	10.00	3.00	13.00
1500 SF		Painting, new work		.10	.08	150.00	120.00	270.00
28 LF		Partition, panel type, Rm. 114		5.50	4.50	154.00	126.00	280.00
1 ea		Door, 2'8" X 6'8" X 1 3/4"		36.00	40.00	36.00	40.00	76.00
400 SF		Paint, new work		.10	.08	40.00	32.00	72.00
8 LF		Partition, panel type		5.50	4.50	44.00	36.00	80.00
1 lot		Benches, existing, remove		20.00	-	20.00	-	20.00
200 SF		Painting, new and patch		.10	.08	20.00	16.00	36.00
		Sub-Total				1060.00	825.00	1885.00

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SFNS the NRDL Space in Building 520, Cont'd

Item	Quantity	Description	By	Unit Cost		Direct Cost		Total
				Labor	Material	Labor	Material	
<b>B. Mechanical</b>								
	2 ea	Convectors 6' Fin type Rm 116	X07	\$ 30.00	\$ 48.00	\$ 60.00	\$ 96.00	\$ 156.00
	1 ea	Sink, removal cap pipes & drain	X07	10.00	-	10.00	-	10.00
		Sub-Total				70.00	96.00	166.00
<b>C. Electrical</b>								
	7 ea	Outlets, Duplex Rms 116	NRDL	10.00	3.50	70.00	24.50	94.50
	4 ea	Fans exhaust Rms 114 & 116	NRDL	24.00	60.00	96.00	240.00	336.00
	4 ea	Fixtures, Fluor light Remove Rm 116	NRDL	2.50	-	10.00	-	10.00
		Sub-Total				176.00	264.50	440.50
<b>D. Collateral</b>								
		None						
<b>E. A&amp;E Dwgs &amp; Specs.</b>								
	2 MD	Drafting	NRDL	20.00	-	40.00	-	40.00
Summary for Item 5								
A. Construction						1060.00	825.00	1885.00
B. Mechanical						70.00	96.00	166.00
C. Electrical						176.00	264.50	440.50
D. Collateral								
E. A&E Dwgs						40.00	-	40.00
Total for Item 5						1346.00	1185.50	2531.50

U. S. Naval Radiological Defense Laboratory's Project No. M3-53, Detailed Estimate of Cost for Consolidation and Rearrangement Program for Return to SFNS the NRDL Space in Building 520, Cont'd

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>By</u>	<u>Unit Cost</u>		<u>Direct Cost</u>		<u>Total</u>
				<u>Labor</u>	<u>Material</u>	<u>Labor</u>	<u>Material</u>	
6. <u>Move</u>								
6a.		Military Evaluations Group from Rooms 8, 10, 11, 19, 20, 21, 22, 23 and 24, Bldg. 520 to Rooms 113, 113A, 114, 114A and 241, Bldg. 351B						
	20 MD		NRDL	\$ 13.00	-	\$ 260.00	-	\$ 260.00
6b.		Projects Officers from Rooms 12, 13, 14, 15, 15A, 16 and 17, Bldg. 520 to Rooms 112, 116, 122 and 129, Bldg. 351B						
	18 MD		NRDL	13.00	-	234.00	-	234.00
7. <u>Clean-up and Salvage NRDL Space in Bldg. 520</u>								
	4 MD	Clean-up		13.00	-	52.00	-	52.00
	4 MD	Salvage & Repair		20.00	-	80.00	-	80.00
	1 lot	Repair Material		-	8.00	-	8.00	8.00
						<u>132.00</u>	<u>8.00</u>	<u>140.00</u>

03  
10  
03  
VI

SCOPE OF WORK IN PROJECT M3-53 BY BUILDING AND ROOM NUMBER

BUILDING 508 - SECOND FLOOR

- |          |  |
|----------|--|
| Room 109 | No changes   |
| Room 110 | No changes   |
| Room 216 | No changes   |
| Room 217 | No changes   |
| Room 218 | No changes   |
| Room 219 | No changes   |
| Room 220 | (a) Remove existing counter and swinging door  |
|          | (b) Remove existing wire partition   |
|          | (c) Remove No. 10 gauge wire screen on existing partition and cover with sheetrock on both sides                         |
|          | (d) Install metal cabinets and tops taken from Room 114A, Building 351B  |
|          | (e) Install new section of 2 X 4 partition to ceiling with sheetrock on both sides                                       |
|          | (f) Relocate existing lights (3) and install one new 2/40 fluorescent lamp fixture                                       |
|          | (g) Install 3 new plug-in-strips with 4 outlets each on 18" centers  |
|          | (h) Install one new 208 volt, 20 ampere, 3 phase, single outlet  |
|          | (i) Install thermostat (from Room 223), change swing of door   |
| Room 221 | (j) Install new 2 X 4 partition 8' -0" high - sheetrock both sides and install new 3' -0" X 6' 8" X 1 3/4" door          |
|          | (k) Install new light switch   |
|          | (l) Relocate (3) existing light fixtures and install one new 2/40 fluorescent lamp fixture and install one new convactor |
|          | (m) Connect parallel with existing convactor on first floor  |
| Room 222 | (n) Relocate existing thermostat to Room 220   |
| Room 223 | (o) Install new door 2' 8" X 6' 8" X 1 3/4"  |
|          | (p) Relocate 4 existing fluorescent lamp fixtures  |
|          | (q) Install two new convectors and connect parallel with existing convectors on first floor                              |

SCOPE OF WORK IN PROJECT M3-53 FOR BUILDING 351B - FIRST AND SECOND FLOORS

- |           |  |
|-----------|--|
| Room 112  | (a) No changes   |
| Room 113  | (b) Install one removable type partition 7' -0" X 7' -0"   |
| Room 113A | (c) Remove benches - leave electrical outlets as existing  |
| Room 114  | (d) Install two removable partitions. One 7' -0" X 7' -0" long and one 7' -0" X 19' -0" with door 2' 8" X 6' 8".   |
| Room 114A | (e) Remove existing benches - electrical outlets to remain   |
| Room 115  | (f) No changes   |
| Room 115A | (g) No changes   |
| Room 116  | (h) Install new 2 X 4 partition to ceiling with sheetrock on both sides between Rooms 116 and 117. Also install removable partitions 7' -0" high, 53 1/2' long, provide 3 passage ways, one equipped with a swinging door, 2' 8" wide by 3' -0". |

- (i) Install 7 new 110 volt, 15 ampere, duplex outlets
  - (j) Provide louvers in existing door
  - (k) Provide two 110 volt kitchen type ceiling mounted exhaust fans
  - (l) Provide two 6' lengths one tier of wall mounted fin type convectors
  - (m) Provide swinging gate type door in new partition to room shown on plan
- Room 122 (n) Install new 2 X 4 partition to ceiling with sheet rock on both sides
- Room 123 (o) No changes
- Room 124 (p) No changes
- Room 125 (q) Install 4 new 110 volt, 15 ampere, duplex outlets
- (r) Provide and install door from Room 125 to Room 133A
- Room 129 (s) No changes
- Room 132 (t) No changes
- Room 133 (u) Install removable type partition 7' -0" high by 23" long and provide one door 2' 8" wide by 6' 8" high.
- Room 133A (v) No changes
- Room 134 (w) No changes
- Room 241 (x) Provide one removable type partition 7' -0" long by 7' -0" high.
- (y) Remove existing benches (Hood and other equipment to remain)